

=> fil reg  
FILE 'REGISTRY' ENTERED AT 11:44:48 ON 01 JUN 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9  
DICTIONARY FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

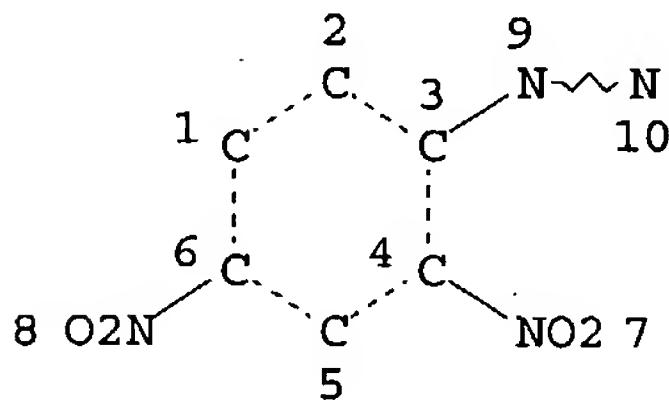
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que

L3 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 10

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

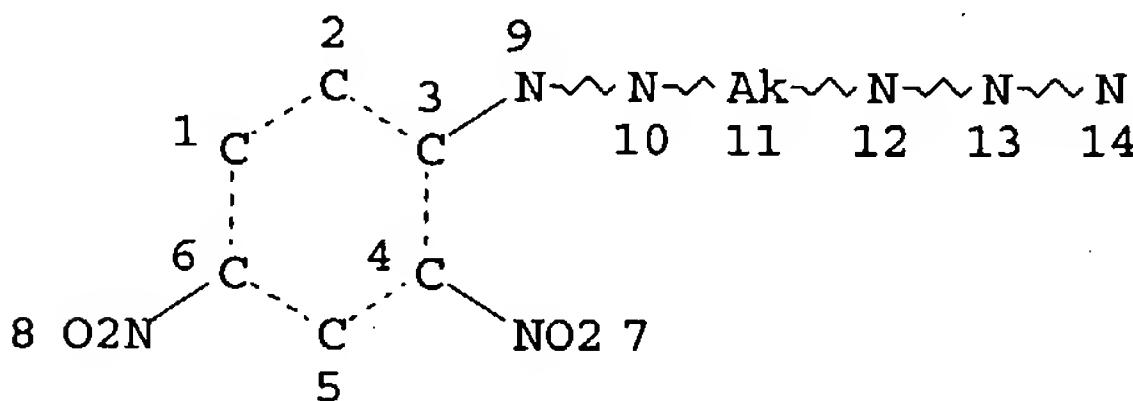
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L5 SCR 1839

L7 4596 SEA FILE=REGISTRY CSS FUL L3 NOT L5

L8 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 11

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

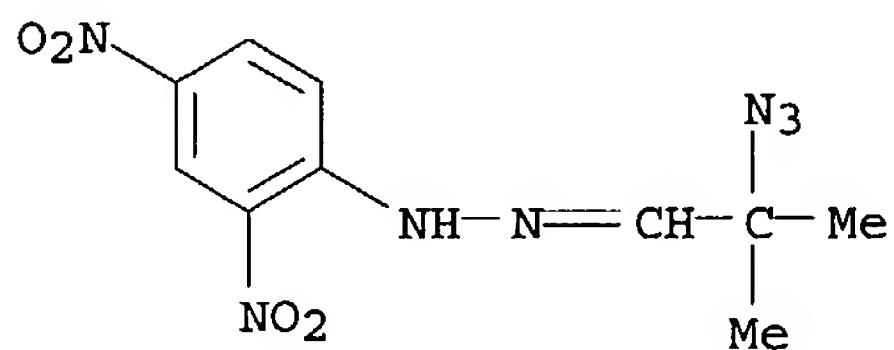
RSPEC 1  
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE  
L10 10 SEA FILE=REGISTRY SUB=L7 CSS FUL L8

100.0% PROCESSED 10 ITERATIONS 10 ANSWERS  
SEARCH TIME: 00.00.01

=> d scan

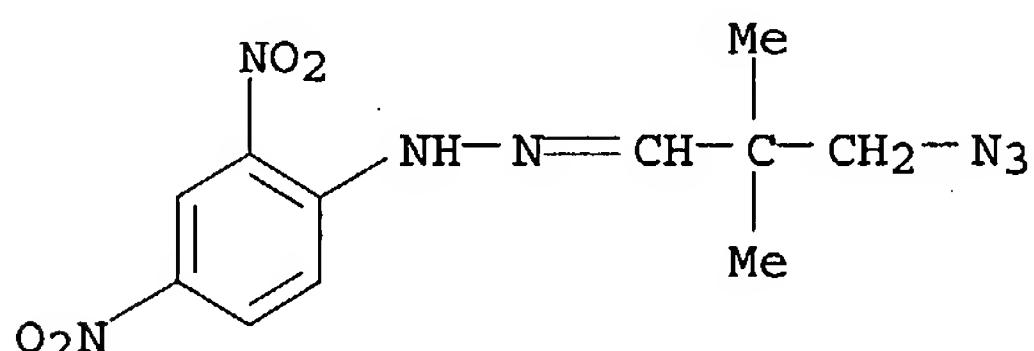
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Propanal, 2-azido-2-methyl-, (2,4-dinitrophenyl)hydrazone (9CI)  
MF C10 H11 N7 O4



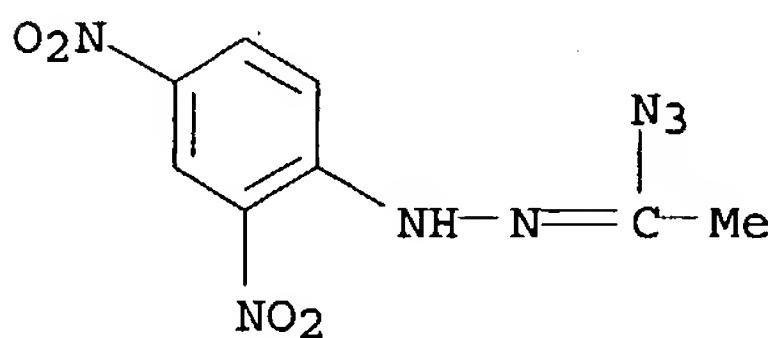
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Propanal, 3-azido-2,2-dimethyl-, (2,4-dinitrophenyl)hydrazone (9CI)  
MF C11 H13 N7 O4

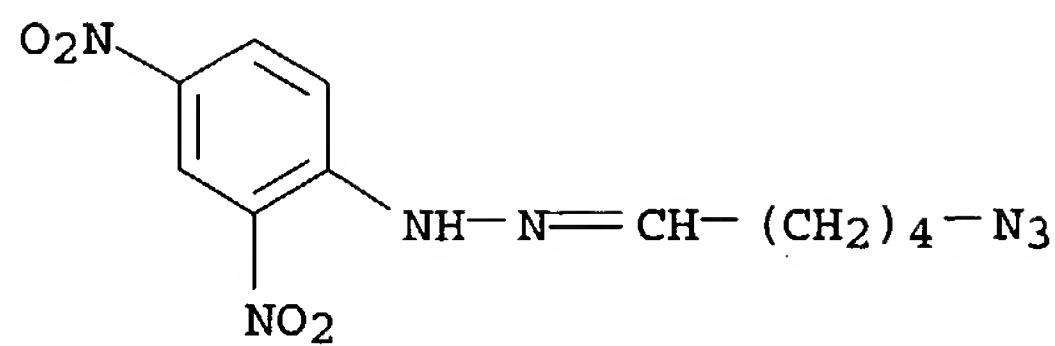


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Ethanehydrazonoyl azide, N-(2,4-dinitrophenyl)- (9CI)  
MF C8 H7 N7 O4



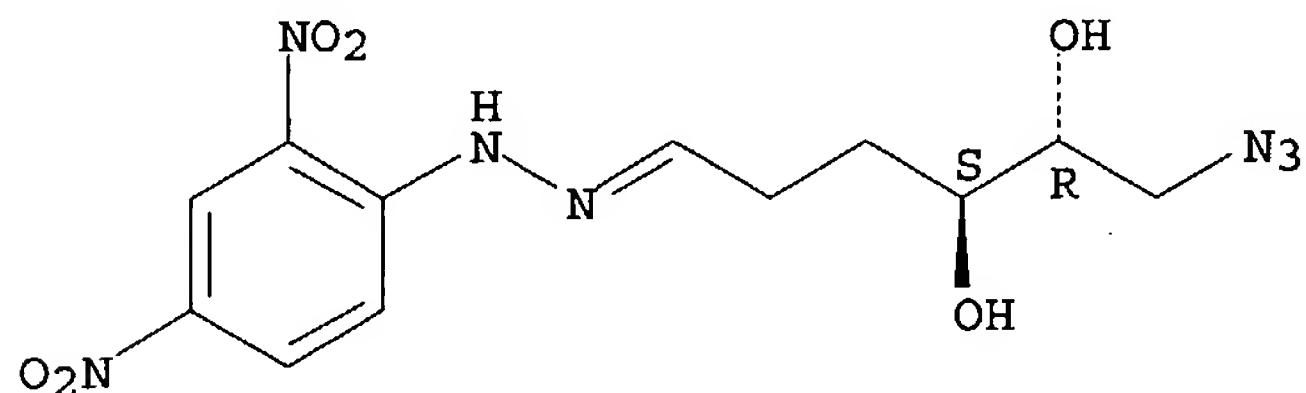
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Pentanal, 5-azido-, (2,4-dinitrophenyl)hydrazone (9CI)

MF C11 H13 N7 O4

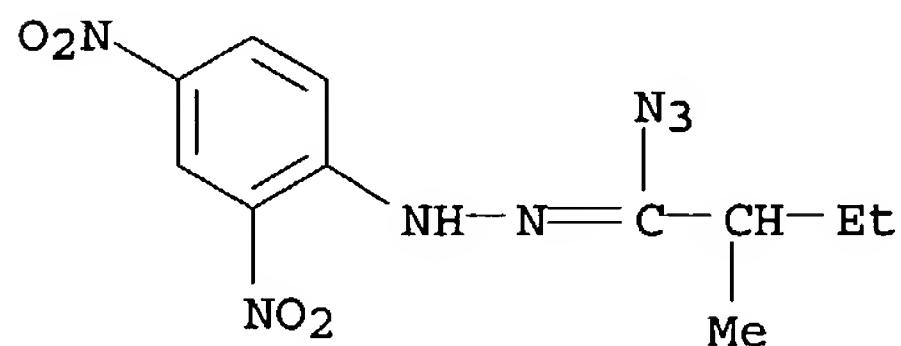


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN D-erythro-Hexose, 6-azido-2,3,6-trideoxy-, (2,4-dinitrophenyl)hydrazone (9CI)  
 MF C12 H15 N7 O6

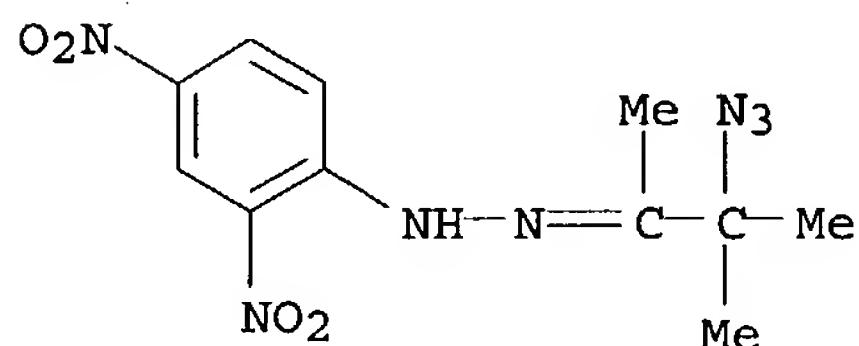
Absolute stereochemistry.  
 Double bond geometry unknown.



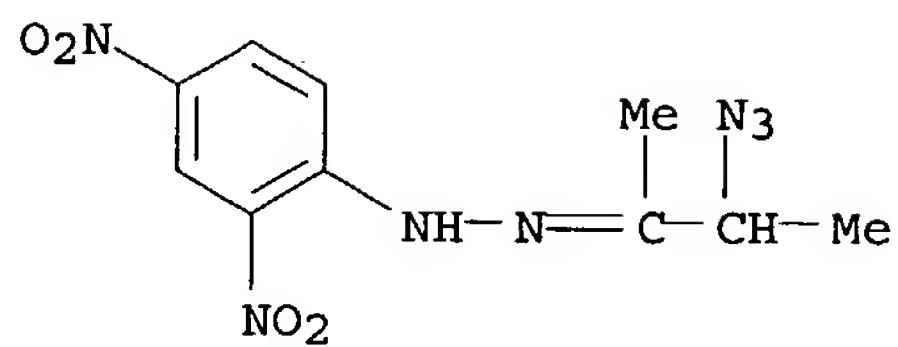
L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Butyryl azide, 2-methyl-, (2,4-dinitrophenyl)hydrazone (8CI)  
 MF C11 H13 N7 O4



L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 2-Butanone, 3-azido-3-methyl-, (2,4-dinitrophenyl)hydrazone (7CI, 8CI)  
 MF C11 H13 N7 O4

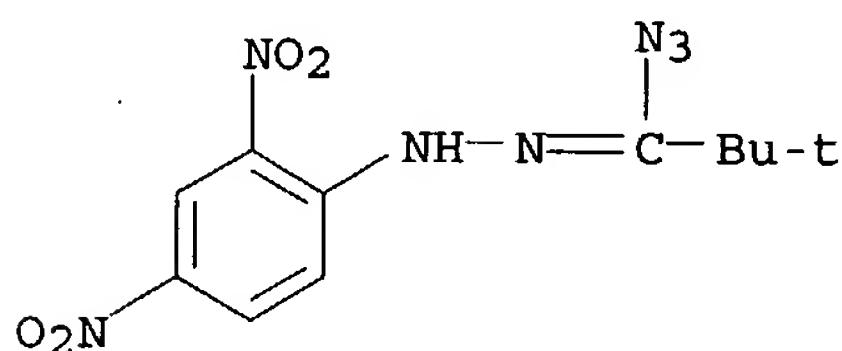


L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 2-Butanone, 3-azido-, (2,4-dinitrophenyl)hydrazone (9CI)  
 MF C10 H11 N7 O4

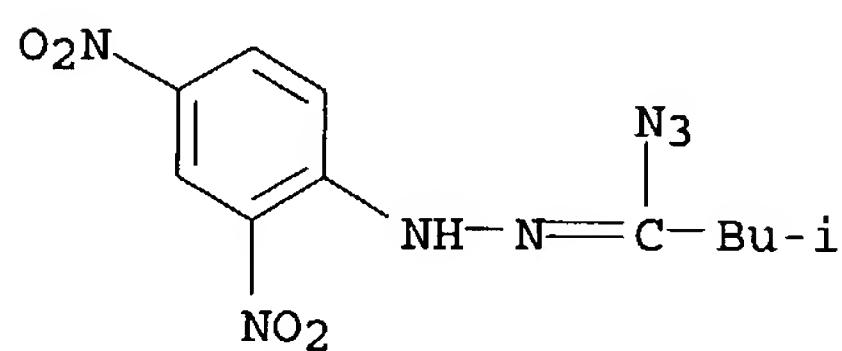


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Propanehydrazoneyl azide, N-(2,4-dinitrophenyl)-2,2-dimethyl- (9CI)  
 MF C11 H13 N7 O4



L10 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Butyryl azide, 1-methyl-, (2,4-dinitrophenyl)hydrazone (8CI)  
 MF C11 H13 N7 O4



ALL ANSWERS HAVE BEEN SCANNED

=>

=> fil reg  
FILE 'REGISTRY' ENTERED AT 11:14:14 ON 01 JUN 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9  
DICTIONARY FILE UPDATES: 31 MAY 2004 HIGHEST RN 688001-12-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que 124  
L21 STR  
  
12  
N  
}  
}  
N 11  
}  
}  
N 10  
}  
17  
C 9 O  
}{  
5  
}  
N~~N~~N~~C~~C~~O~~C~^Cb  
1 2 3 4 } 6 7 8  
C 13  
}  
N 14  
}  
N 15  
}  
N  
16

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
GGCAT IS PCY AT 8  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

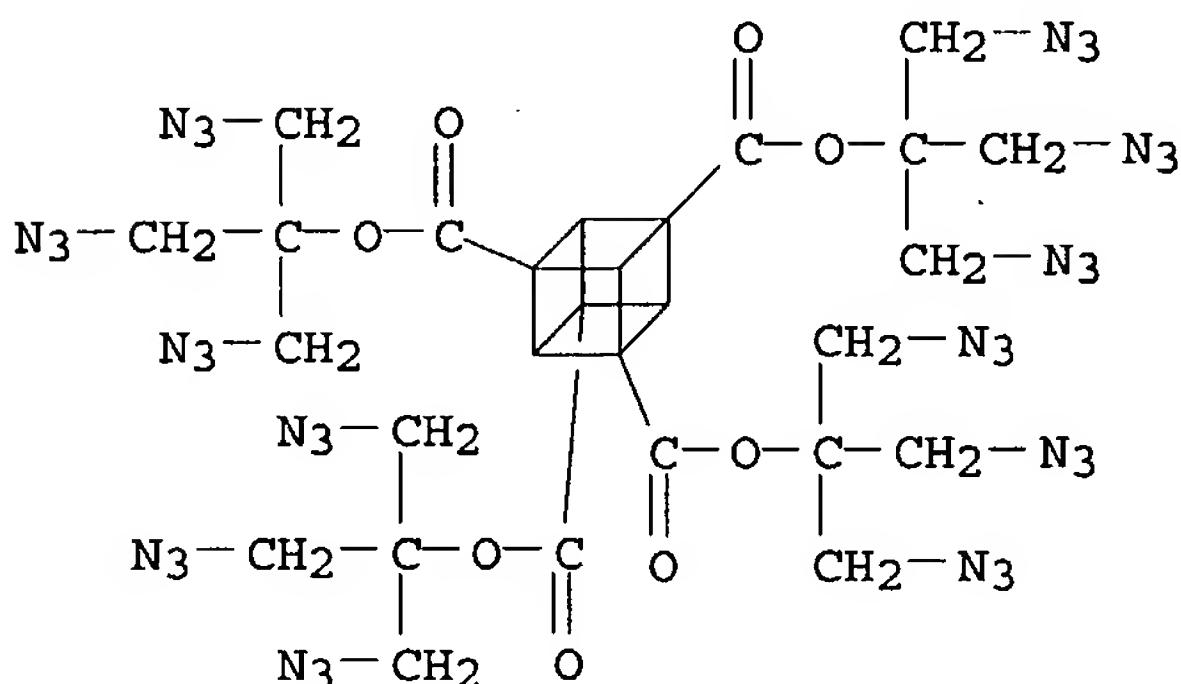
L24 3 SEA FILE=REGISTRY SSS FUL L21

100.0% PROCESSED 6 ITERATIONS  
SEARCH TIME: 00.00.01

3 ANSWERS

=> d ide can tot 125

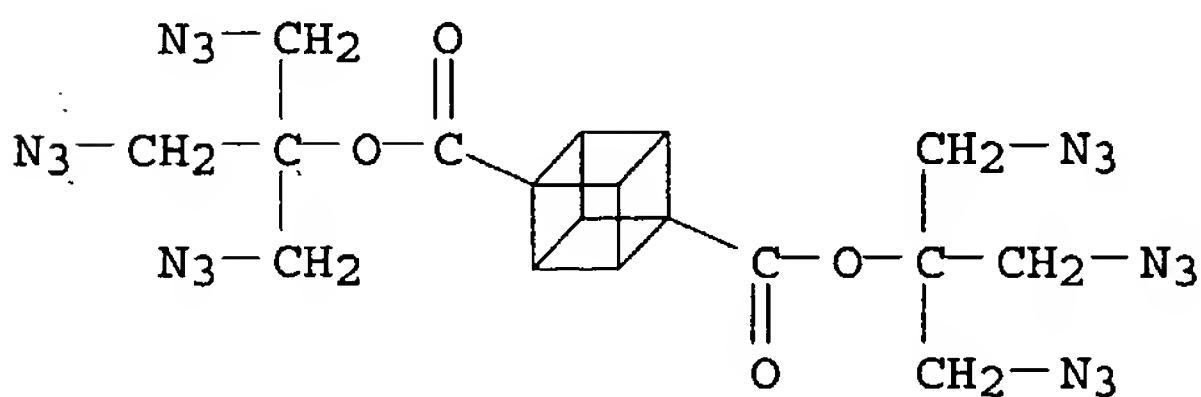
L25 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-77-1 REGISTRY  
 CN INDEX NAME NOT YET ASSIGNED  
 FS 3D CONCORD  
 MF C28 H28 N36 O8  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAPplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-76-0 REGISTRY  
 CN INDEX NAME NOT YET ASSIGNED  
 FS 3D CONCORD  
 MF C18 H18 N18 O4  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAPplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)

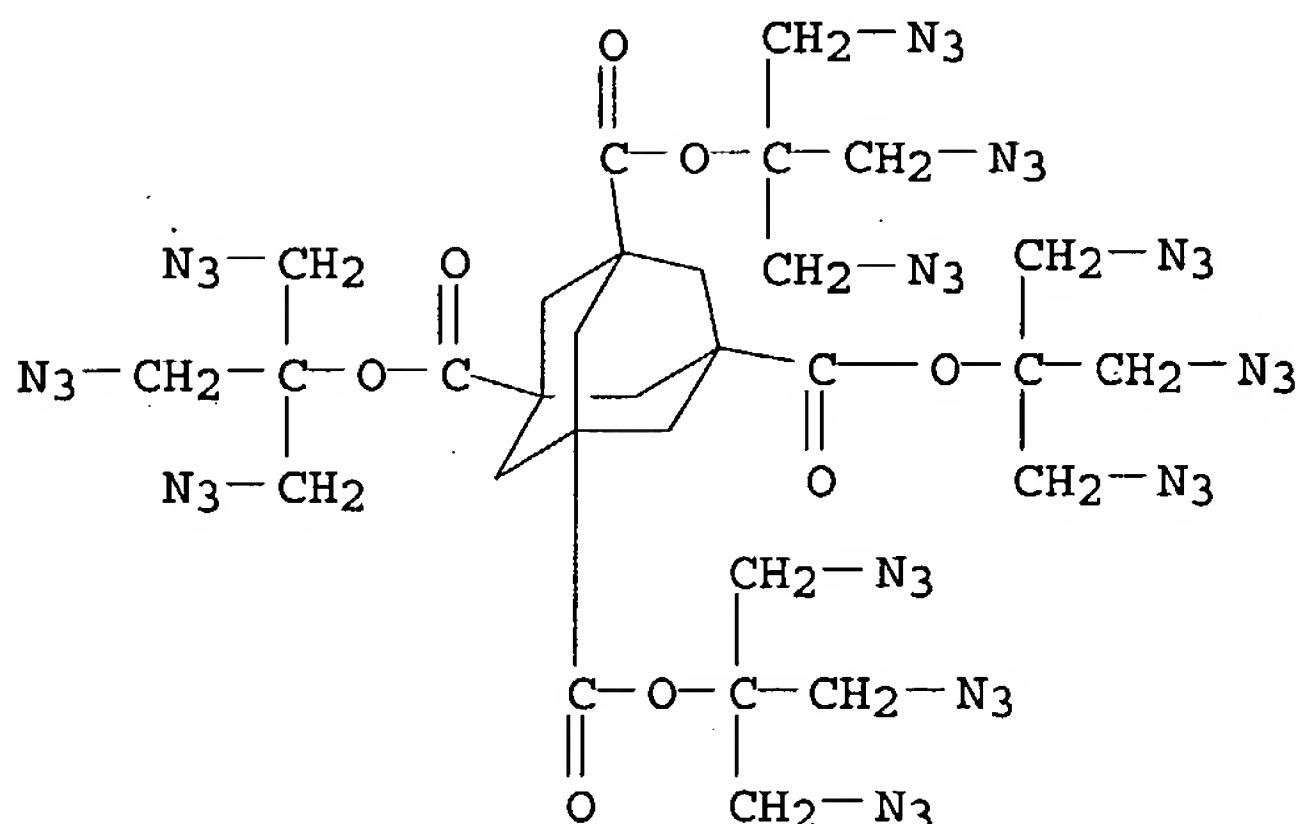


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-75-9 REGISTRY  
 CN INDEX NAME NOT YET ASSIGNED

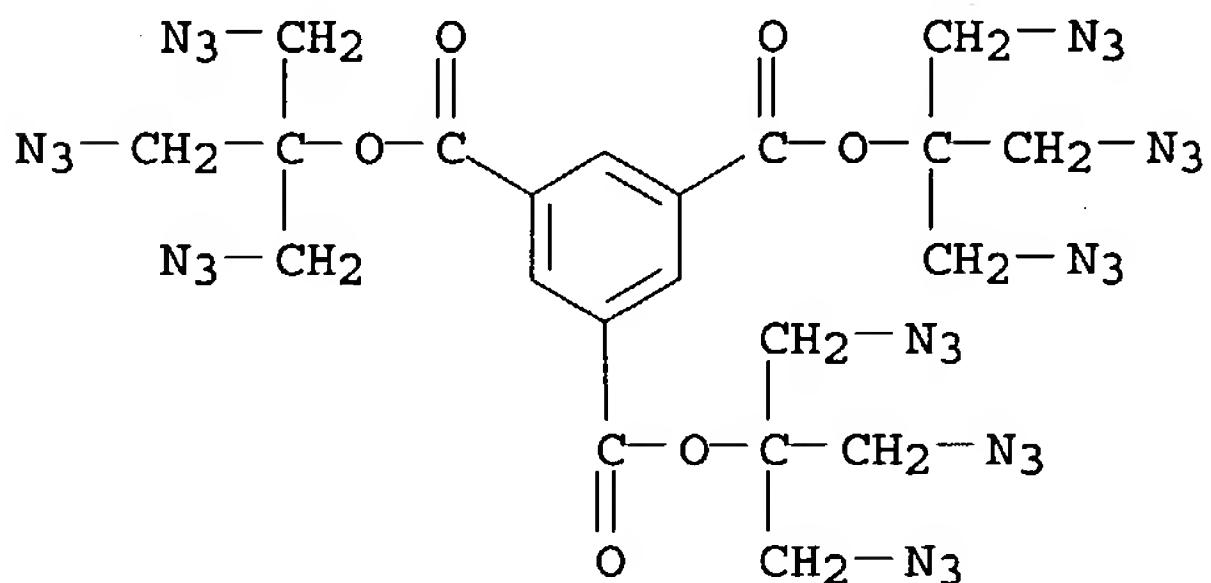
FS 3D CONCORD  
 MF C30 H36 N36 O8  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-74-8 REGISTRY  
 CN INDEX NAME NOT YET ASSIGNED  
 FS 3D CONCORD  
 MF C21 H21 N27 O6  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-71-5 REGISTRY  
 CN INDEX NAME NOT YET ASSIGNED  
 FS 3D CONCORD

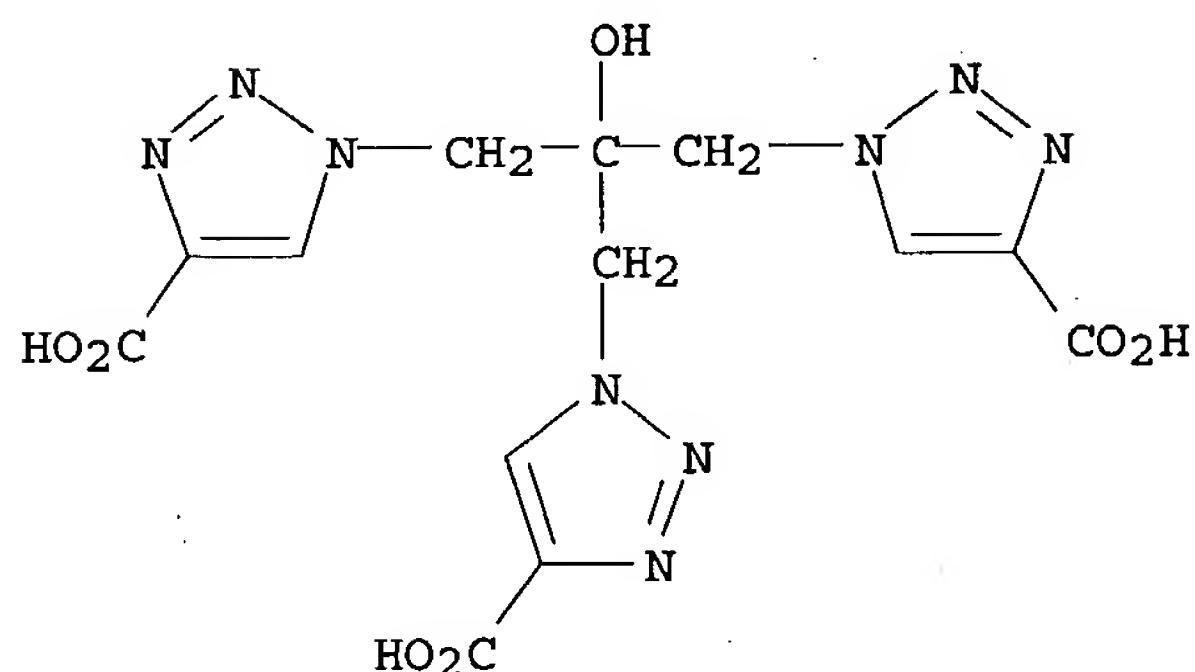
MF C13 H13 N9 O7

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 682353-70-4 REGISTRY

CN 1H-1,2,3-Triazole-4-carboxylic acid, 1,1'-(2,2-dinitro-1,3-propanediyl)bis- (9CI) (CA INDEX NAME)

FS 3D CONCORD

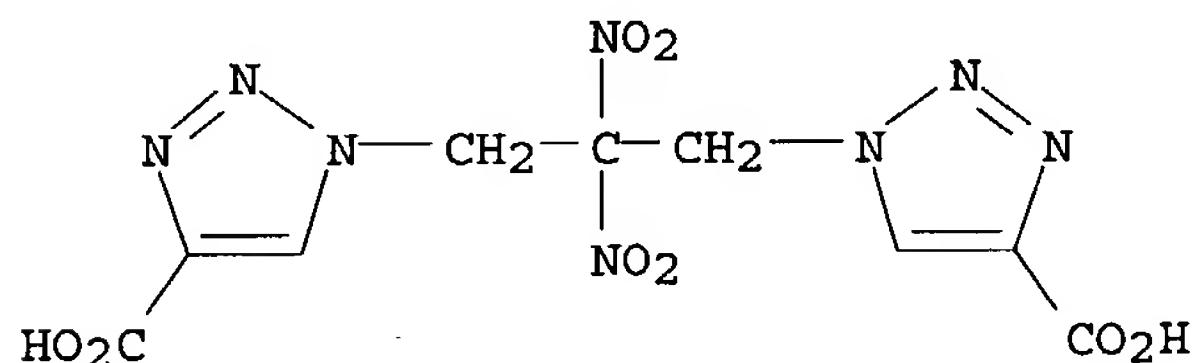
MF C9 H8 N8 O8

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

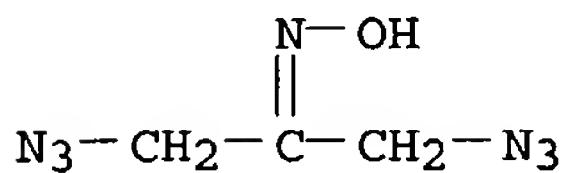
RN 682353-69-1 REGISTRY

CN 2-Propanone, 1,3-diazido-, oxime (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C3 H5 N7 O

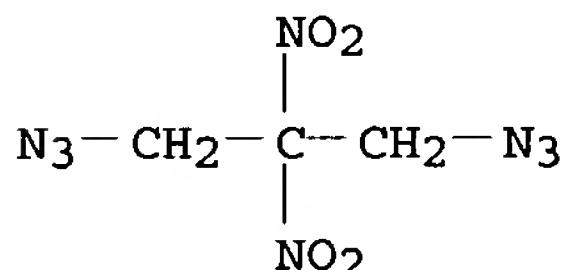
SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

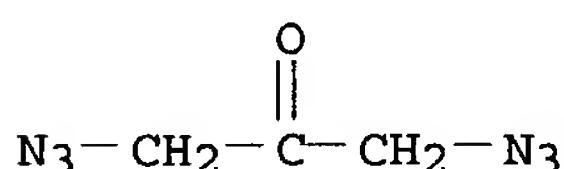
L25 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-68-0 REGISTRY  
 CN Propane, 1,3-diazido-2,2-dinitro- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C3 H4 N8 O4  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-67-9 REGISTRY  
 CN 2-Propanone, 1,3-diazido- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C3 H4 N6 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

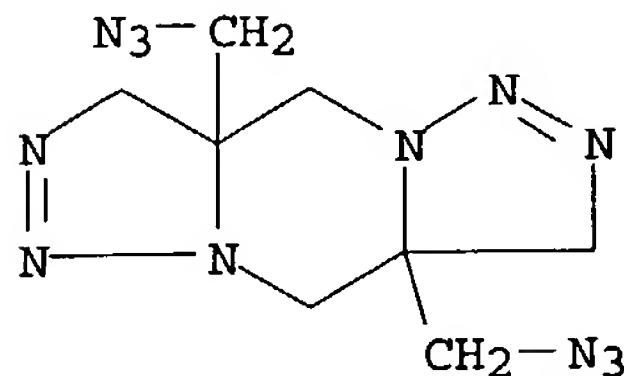


1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L25 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 481067-67-8 REGISTRY  
 CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1',5'-d]pyrazine, 3a,8a-bis(azidomethyl)-

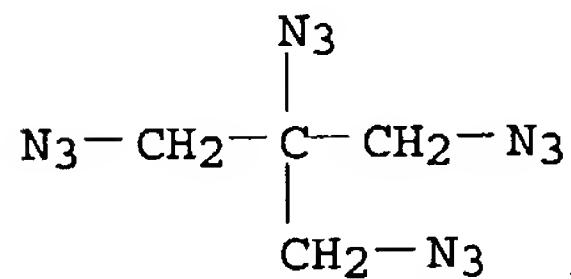
3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C8 H12 N12  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

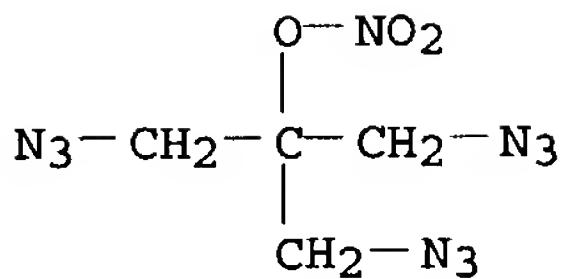
L25 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 481067-64-5 REGISTRY  
 CN Propane, 1,2,3-triazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C4 H6 N12  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

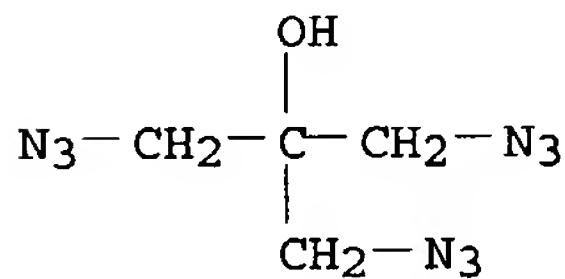
L25 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 481067-63-4 REGISTRY  
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)-, nitrate (ester) (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C4 H6 N10 O3  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

L25 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 481067-62-3 REGISTRY  
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C4 H7 N9 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA Caplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

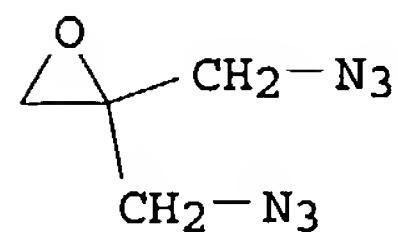


2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 481067-60-1 REGISTRY  
 CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C4 H6 N6 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA Caplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)



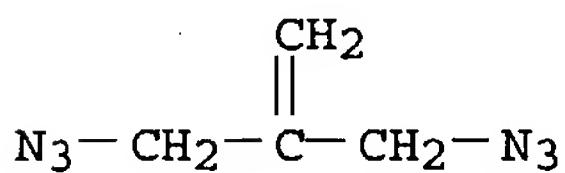
2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 481067-58-7 REGISTRY  
 CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C4 H6 N6  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

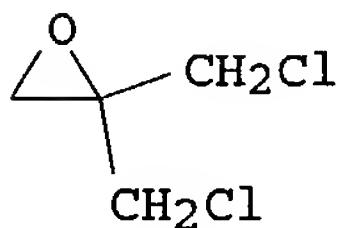


2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

REFERENCE 2: 138:75615

L25 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 1003-20-9 REGISTRY  
 CN Oxirane, 2,2-bis(chloromethyl)- (8CI, 9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Propane, 1-chloro-2-(chloromethyl)-2,3-epoxy- (7CI)  
 OTHER NAMES:  
 CN 1-Chloro-2,3-epoxy-2-chloromethylpropane  
 FS 3D CONCORD  
 MF C4 H6 Cl2 O  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA CAplus document type: Journal; Patent  
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)  
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent);  
 NORL (No role in record)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

17 REFERENCES IN FILE CA (1907 TO DATE)  
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:357709

REFERENCE 2: 139:197558

REFERENCE 3: 138:75615

REFERENCE 4: 135:211069

REFERENCE 5: 121:280784

REFERENCE 6: 102:78892

REFERENCE 7: 102:19615

REFERENCE 8: 101:38456

REFERENCE 9: 98:125057

REFERENCE 10: 96:68248

L25 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 119-26-6 REGISTRY

CN Hydrazine, (2,4-dinitrophenyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (2,4-Dinitrophenyl)hydrazine

CN 1-Hydrazino-2,4-dinitrobenzene

CN DNPH

CN NSC 5709

FS 3D CONCORD

MF C6 H6 N4 O4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DETHERM\*, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

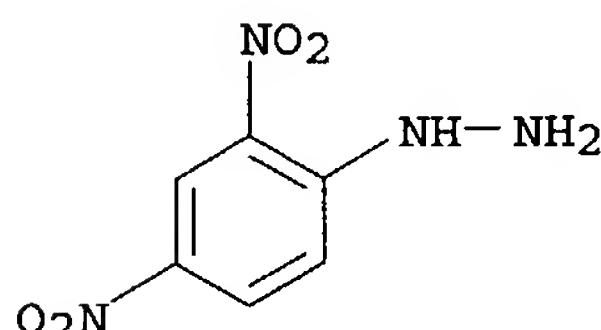
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1930 REFERENCES IN FILE CA (1907 TO DATE)

56 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

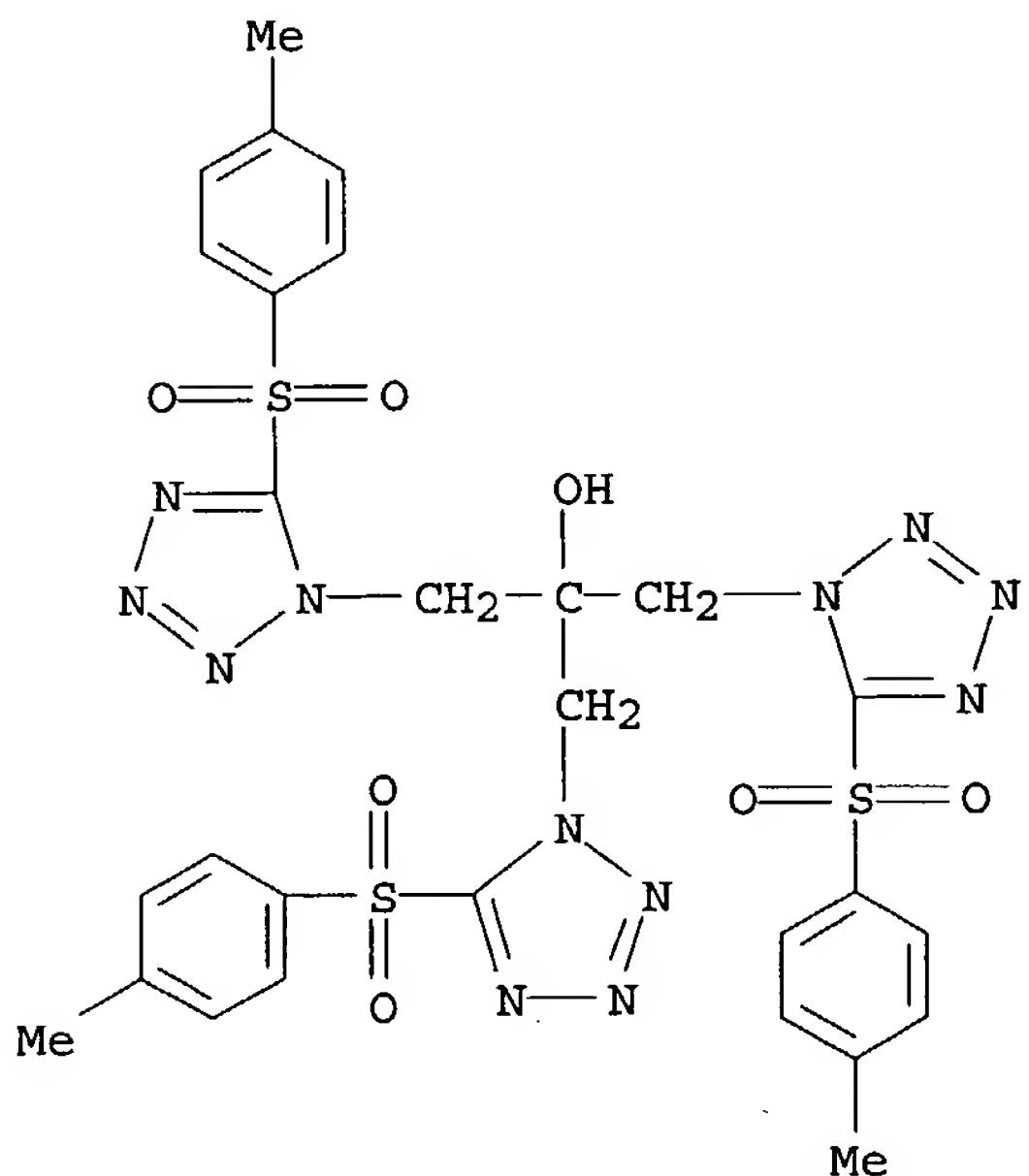
1930 REFERENCES IN FILE CAPLUS (1907 TO DATE)

65 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 140:376922  
 REFERENCE 2: 140:375882  
 REFERENCE 3: 140:375263  
 REFERENCE 4: 140:374959  
 REFERENCE 5: 140:367870  
 REFERENCE 6: 140:357300  
 REFERENCE 7: 140:357030  
 REFERENCE 8: 140:352917  
 REFERENCE 9: 140:308142  
 REFERENCE 10: 140:296559

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L33 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 682353-73-7 REGISTRY  
 CN 1H-Tetrazole-1-ethanol, 5-[(4-methylphenyl)sulfonyl]- $\alpha$ , $\alpha$ -bis[[5-[(4-methylphenyl)sulfonyl]-1H-tetrazol-1-yl]methyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C28 H28 N12 O7 S3  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Journal  
 RL.NP Roles from non-patents: PREP (Preparation)



FYI -  
from applicants

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L33 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN

RN 682353-72-6 REGISTRY

CN INDEX NAME NOT YET ASSIGNED

FS 3D CONCORD

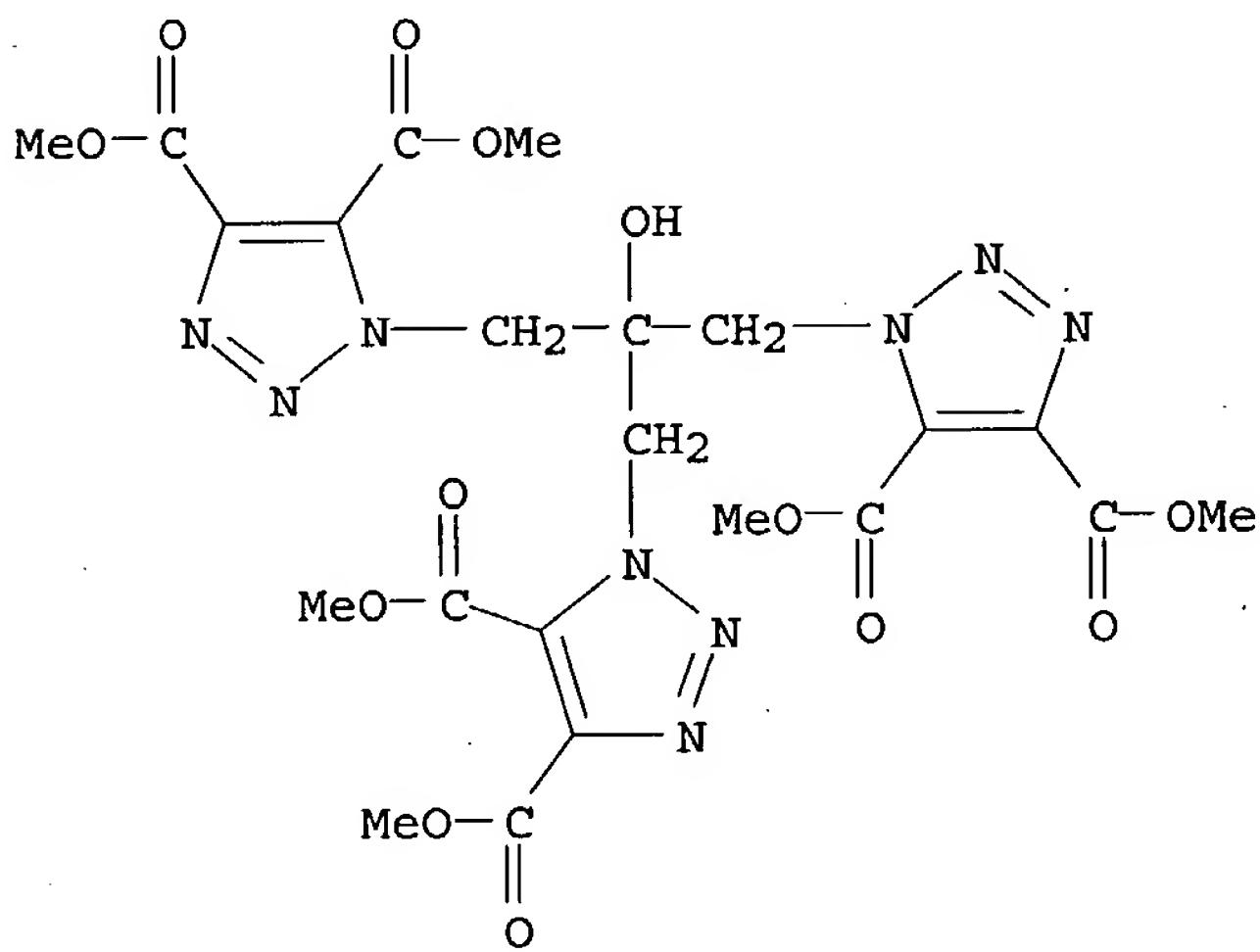
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SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:357709

L33 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN

RN 481067-65-6 REGISTRY

CN 1,2-Propanediol, 3-azido-2-(azidomethyl)-, dinitrate (ester) (9CI) (CA  
INDEX NAME)

FS 3D CONCORD

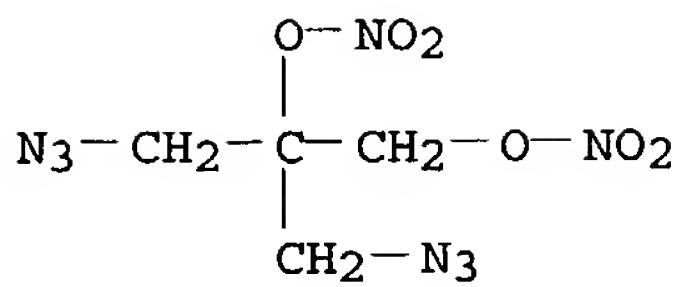
MF C4 H6 N8 O6

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:75615

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 SAV L24 QAZI604B/A  
 L25 17 S L19, L24

FILE 'REGISTRY' ENTERED AT 11:14:14 ON 01 JUN 2004  
 L26 15 S L25 NOT (119-26-6 OR 1003-20-9)  
 L27 2 S L25 NOT L26

FILE 'HCAOLD' ENTERED AT 11:15:25 ON 01 JUN 2004  
 L28 0 S L26

FILE 'USPATFULL, USPAT2' ENTERED AT 11:15:29 ON 01 JUN 2004  
 L29 0 S L26

FILE 'HCAPLUS' ENTERED AT 11:15:34 ON 01 JUN 2004  
 L30 2 S L26  
 L31 1948 S L27  
 L32 2 S L30 AND L31

FILE 'REGISTRY' ENTERED AT 11:16:28 ON 01 JUN 2004  
 L33 3 S 682353-72-6 OR 682353-73-7 OR 481067-65-6

FILE 'HCAPLUS' ENTERED AT 11:16:44 ON 01 JUN 2004  
 L34 2 S L33

FILE 'USPATFULL, USPAT2' ENTERED AT 11:16:45 ON 01 JUN 2004  
 L35 0 S L33

FILE 'HCAPLUS' ENTERED AT 11:16:50 ON 01 JUN 2004  
 L36 2 S L33  
 L37 2 S L34, L36

FILE 'REGISTRY' ENTERED AT 11:17:02 ON 01 JUN 2004

FILE 'HCAPLUS' ENTERED AT 11:17:25 ON 01 JUN 2004  
 L38 2 S L32, L34, L37

=> fil hcaplus

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FILE LAST UPDATED: 31 May 2004 (20040531/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L38 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:137939 HCAPLUS  
DN 140:357709  
ED Entered STN: 20 Feb 2004  
TI Preparation of cage molecule based polyazido core units for dendrimer synthesis  
AU Dave, Paritosh R.; Duddu, Raja; Yang, Kathy; Damavarapu, Reddy; Gelber, Nathaniel; Surapaneni, Rao; Gilardi, Richard  
CS GEO-CENTERS, INC. at ARDEC, Picatinny Arsenal, NJ, 07806-5000, USA  
SO Tetrahedron Letters (2004), 45(10), 2159-2162  
CODEN: TELEAY; ISSN: 0040-4039  
PB Elsevier Science B.V.  
DT Journal  
LA English  
CC 35-2 (Chemistry of Synthetic High Polymers)  
AB Core mols. based on benzene-, cubane-, and adamantane-polycarboxylates with peripheral polyazido substitution were prepared. The first synthesis of 1,3-diazidoacetone and its conversion to the corresponding oxime, DNPH, and 2,2-dinitro derivs. is also reported. All azido compds. should be considered dangerous and proper precautions should be taken during handling and storage of these mols.  
ST azido core benzene cubane adamantane carboxylate core dendrimer prep;  
cage dendrimer polyazido group alkyne nitrile reaction  
IT Nitration  
(oxidative; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)  
IT Epoxidation  
Ozonization  
(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)  
IT 1003-20-9P 481067-60-1P 481067-62-3P  
682353-67-9P 682353-68-0P 682353-69-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)  
IT 471-25-0, Propiolic acid 534-07-6, 1,3-Dichloroacetone 762-42-5, Dimethyl acetylenedicarboxylate 937-14-4, Mcpba 1871-57-4 4422-95-1, 1,3,5-Benzenetricarbonyl trichloride 5470-11-1, Hydroxylamine hydrochloride 7646-69-7, Sodium hydride 7697-37-2, Nitric acid, reactions 19158-51-1, p-Toluenesulfonyl cyanide 26628-22-8, Sodium azide 60462-24-0 137494-82-7 161980-55-8 481067-58-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)  
IT 682353-70-4P 682353-71-5P 682353-72-6P

682353-73-7P 682353-74-8P 682353-75-9P

682353-76-0P 682353-77-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Banert, K; J Chem Soc, Perkin Trans 2 2002, P126 HCPLUS
- (2) Bashir-Hashemi, A; J Org Chem 1995, V60, P698 HCPLUS
- (3) Bashir-Hashemi, A; Tetrahedron Lett 1995, V36, P1233 HCPLUS
- (4) Boyer, J; Chem Rev 1954, V54, P1 HCPLUS
- (5) Dave, P; J Org Chem 1990, V55, P4459 HCPLUS
- (6) Dave, P; J Org Chem 1995, V60, P1895 HCPLUS
- (7) Dave, P; Tetrahedron 1992, V48, P5839 HCPLUS
- (8) Demko, Z; Angew Chem, Int Ed 2002, V41, P2110 HCPLUS
- (9) Kolb, H; Angew Chem, Int Ed 2001, V40, P2004 HCPLUS
- (10) Marchand, A; J Org Chem 1988, V53, P443 HCPLUS
- (11) Martin, V; Tetrahedron Lett 1999, V40, P223 HCPLUS
- (12) Newkome, G; Dendrimers and Dendrons 2001
- (13) Newkome, G; J Org Chem 1992, V57, P358 HCPLUS
- (14) Pezzullo, J; J Org Chem 1973, V38, P168 HCPLUS
- (15) Surapaneni, R; 33rd International Annual Conference of ICT 2002, P147
- (16) Treves, G; Chem Ind 1971, P544 HCPLUS
- (17) Wilson, E; J Org Chem 1985, V50, P3211 HCPLUS

IT 1003-20-9P 481067-60-1P 481067-62-3P

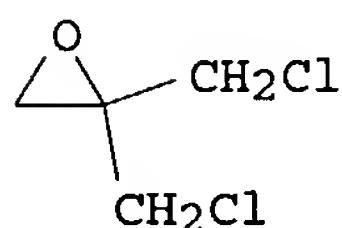
682353-67-9P 682353-68-0P 682353-69-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

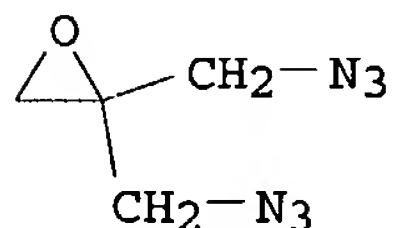
RN 1003-20-9 HCPLUS

CN Oxirane, 2,2-bis(chloromethyl)- (8CI, 9CI) (CA INDEX NAME)



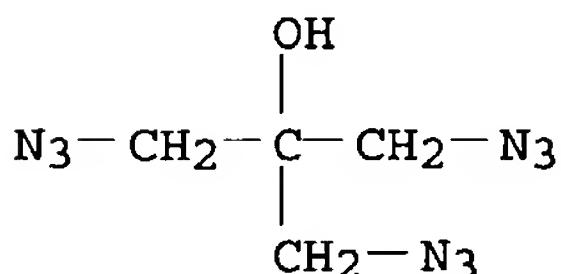
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CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)



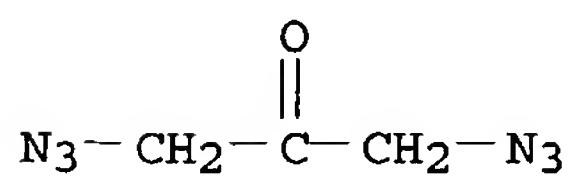
RN 481067-62-3 HCPLUS

CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



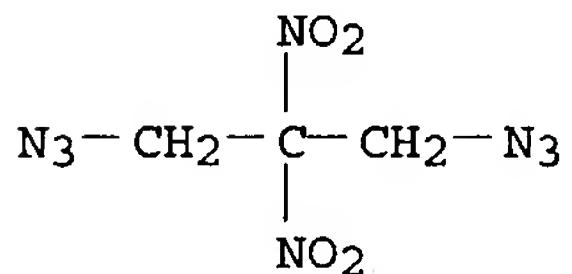
RN 682353-67-9 HCPLUS

CN 2-Propanone, 1,3-diazido- (9CI) (CA INDEX NAME)



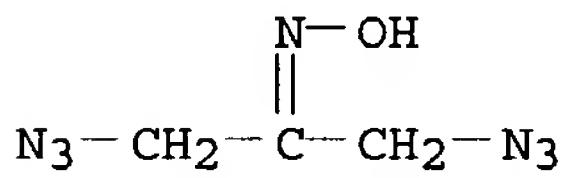
RN 682353-68-0 HCPLUS

CN Propane, 1,3-diazido-2,2-dinitro- (9CI) (CA INDEX NAME)



RN 682353-69-1 HCPLUS

CN 2-Propanone, 1,3-diazido-, oxime (9CI) (CA INDEX NAME)

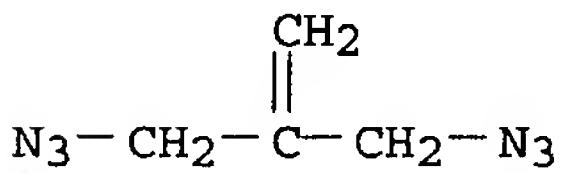


IT 481067-58-7

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

RN 481067-58-7 HCPLUS

CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



IT 682353-70-4P 682353-71-5P 682353-72-6P

682353-73-7P 682353-74-8P 682353-75-9P

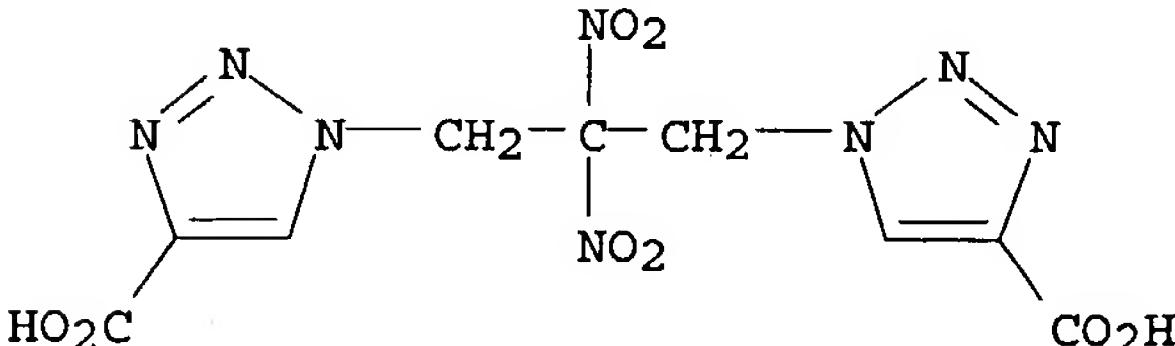
682353-76-0P 682353-77-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of peripheral polyazido and benzene and cubane and adamantane core unit cages for triazole and tetrazole containing dendrimer synthesis)

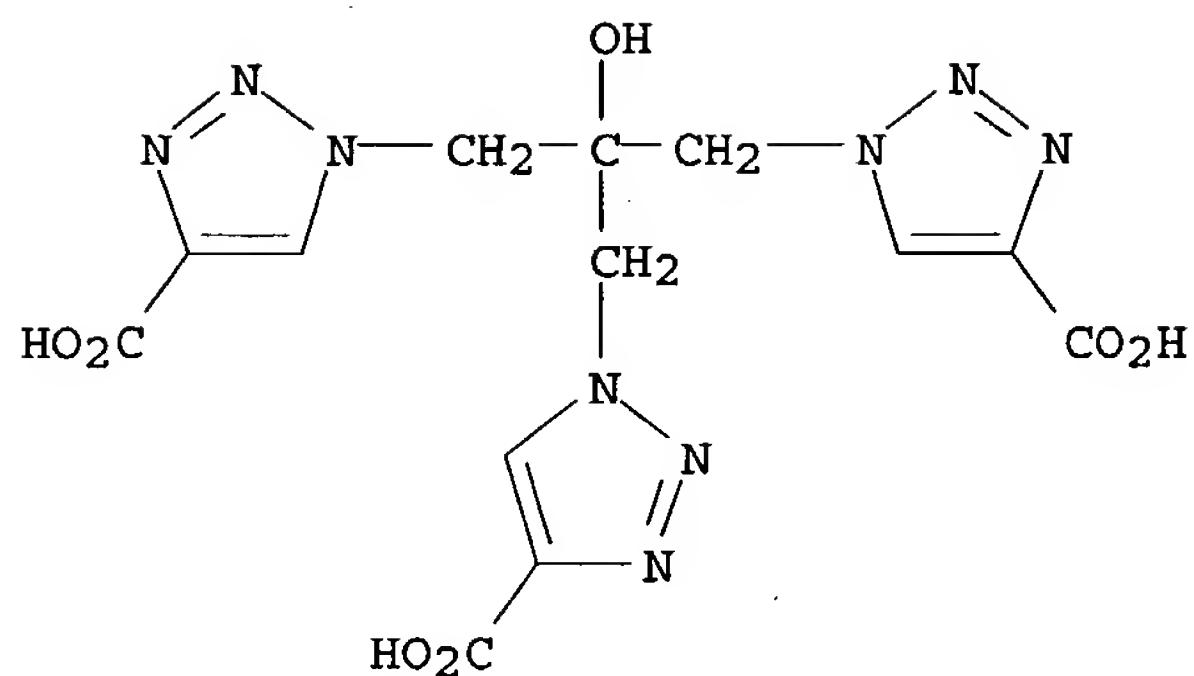
RN 682353-70-4 HCPLUS

CN 1H-1,2,3-Triazole-4-carboxylic acid, 1,1'-(2,2-dinitro-1,3-propanediyl)bis-(9CI) (CA INDEX NAME)

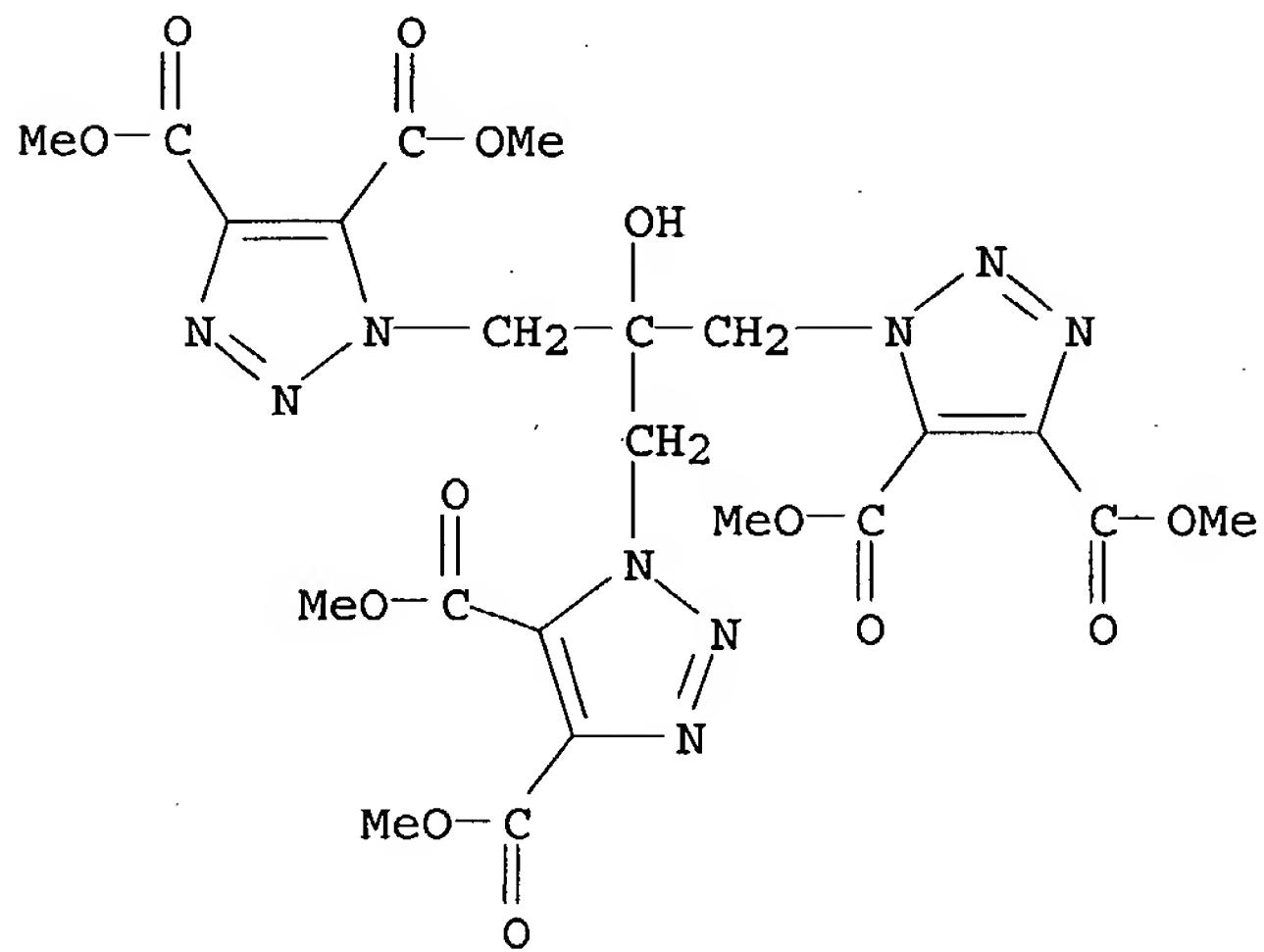


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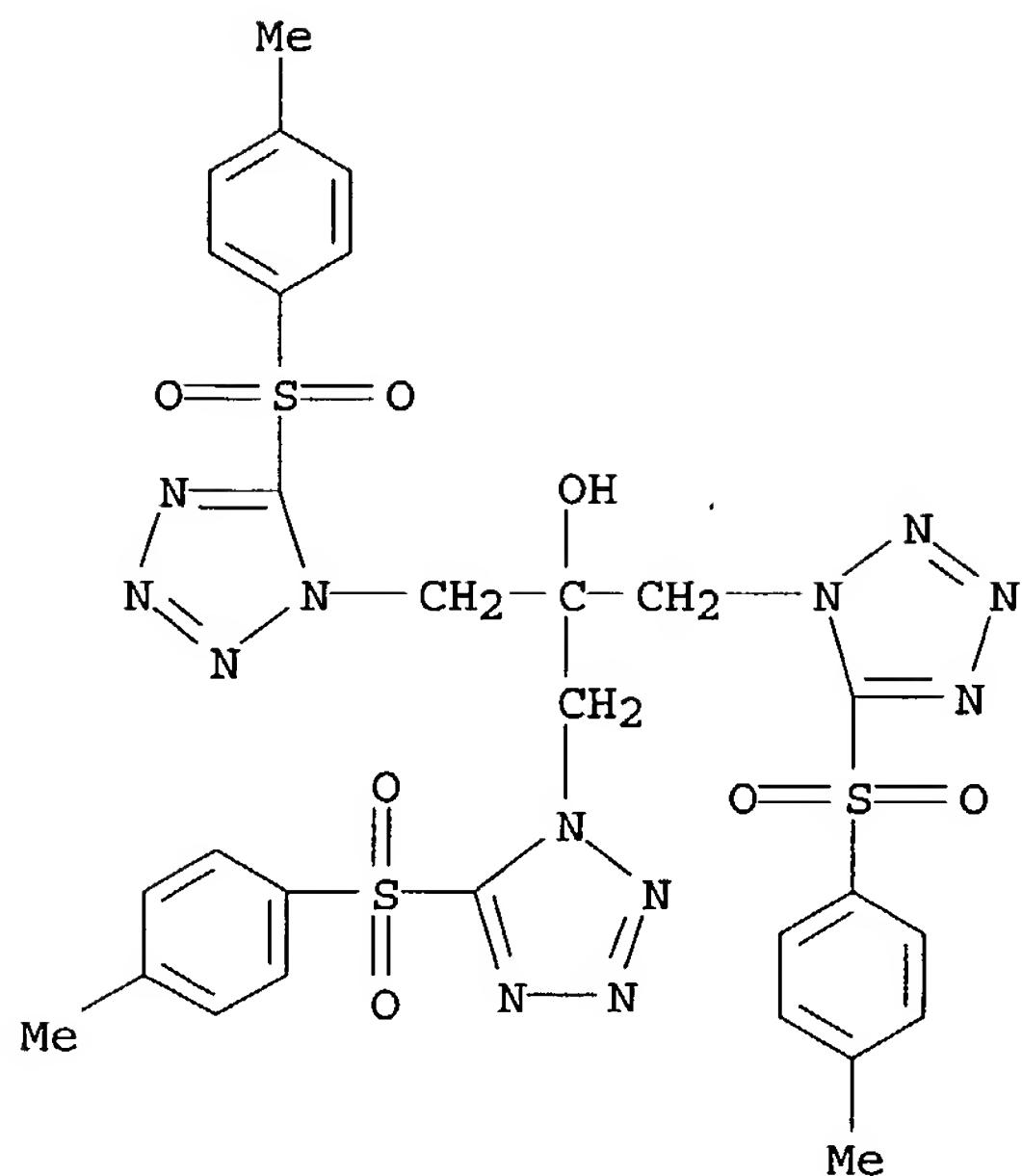
CN INDEX NAME NOT YET ASSIGNED



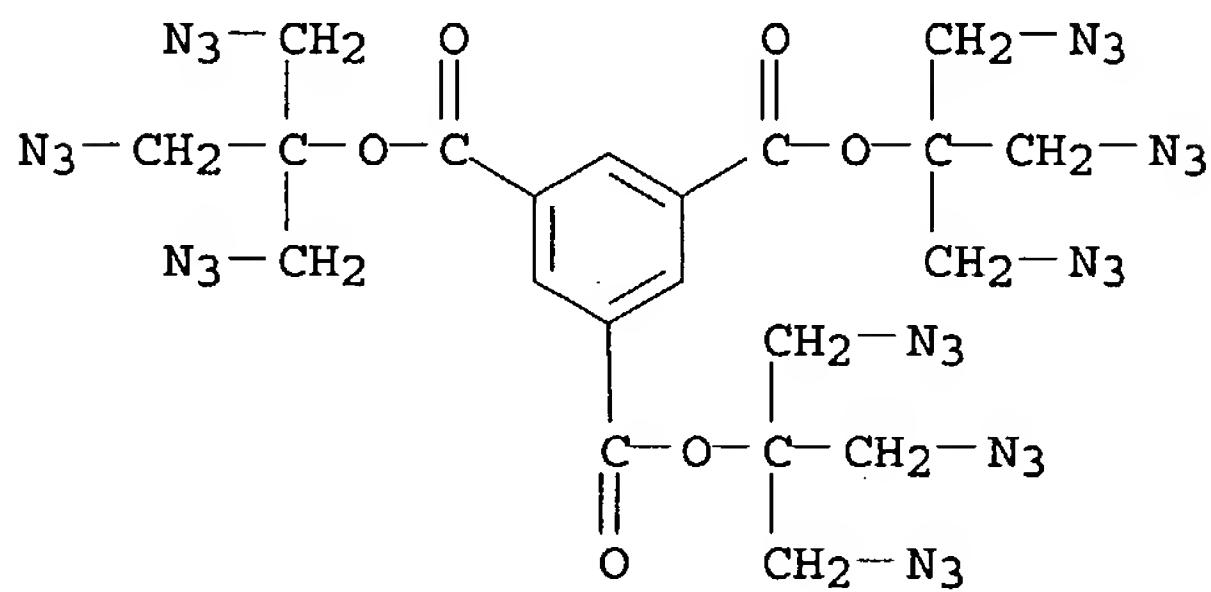
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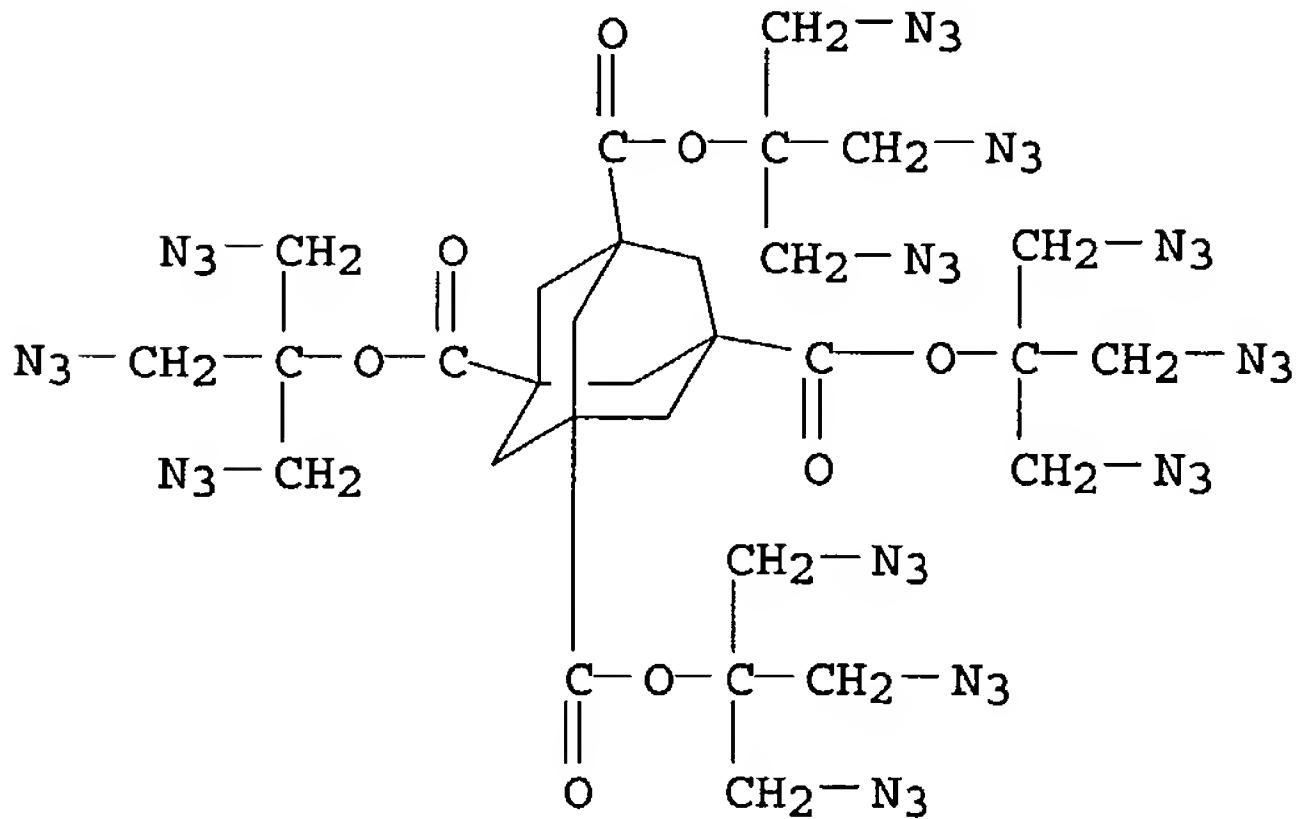
RN 682353-73-7 HCPLUS  
 CN 1H-Tetrazole-1-ethanol, 5-[(4-methylphenyl)sulfonyl]-α,α-bis[[5-[(4-methylphenyl)sulfonyl]-1H-tetrazol-1-yl]methyl] - (9CI) (CA INDEX NAME)



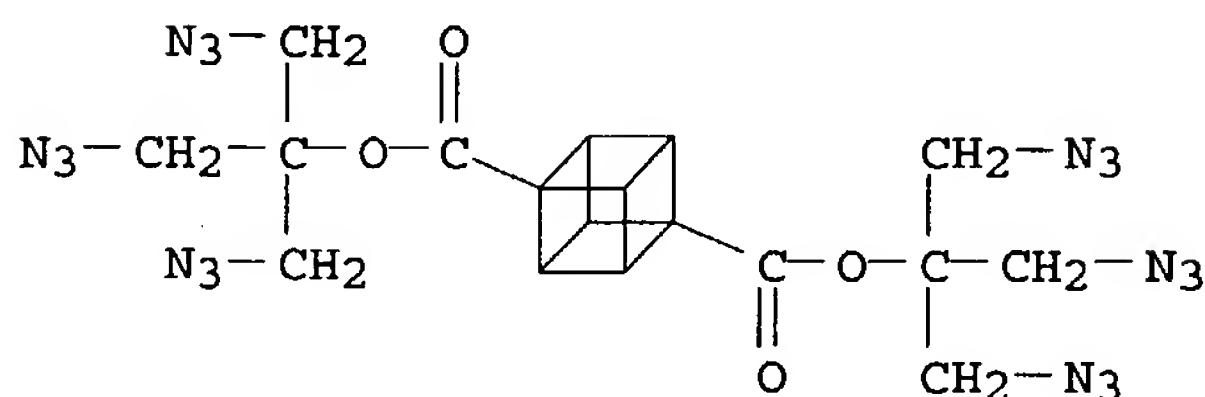
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 CN INDEX NAME NOT YET ASSIGNED



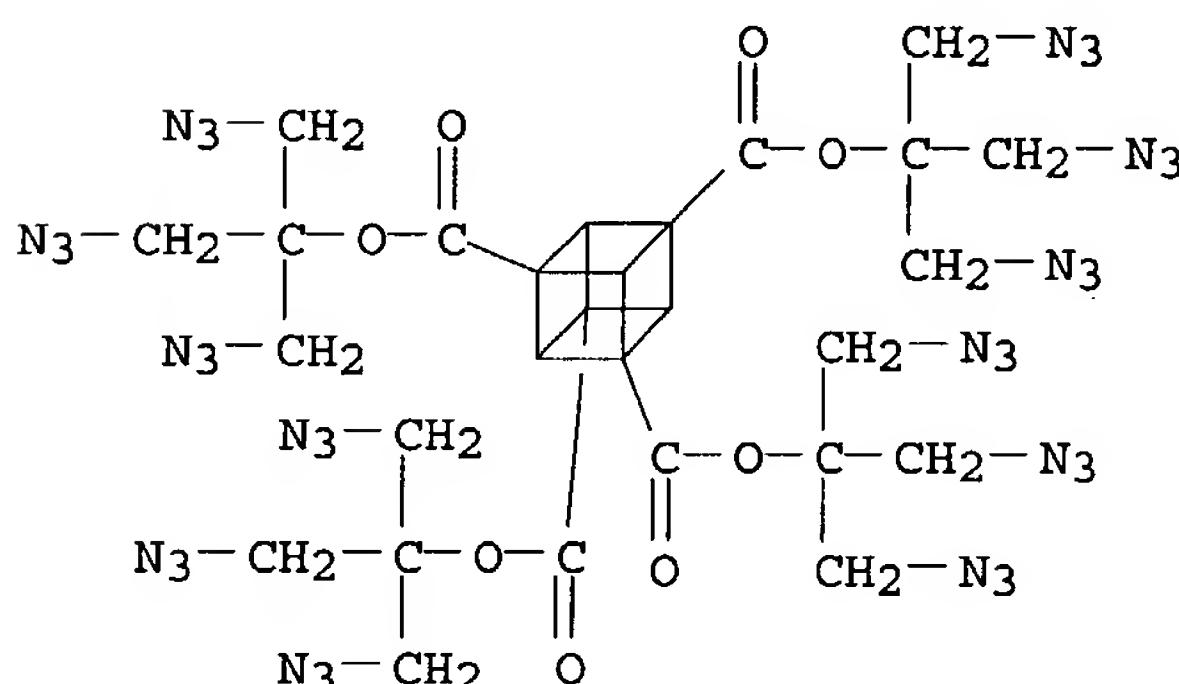
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 CN INDEX NAME NOT YET ASSIGNED



RN 682353-76-0 HCAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



RN 682353-77-1 HCAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



L38 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:605702 HCAPLUS  
 DN 138:75615  
 ED Entered STN: 14 Aug 2002  
 TI Novel polyazido/polynitrato compounds derived from methallyl dichloride  
 AU Surapaneni, Rao; Damavarapu, Reddy; Duddu, Raja; Dave, Paritosh R.;  
 Gilardi, Richard D.  
 CS US Army Armament Research Development and Engineering Center, Picatinny  
 Arsenal, NJ, 07806-5000, USA  
 SO International Annual Conference of ICT (2002), 33rd(Energetic Materials),  
 147/1-147/5  
 CODEN: IACIEQ; ISSN: 0722-4087  
 PB Fraunhofer-Institut fuer Chemische Technologie  
 DT Journal  
 LA English  
 CC 50-1 (Propellants and Explosives)  
 Section cross-reference(s): 35  
 AB Several polynitrato and polyazido compds., derived from a lower homolog of pentaerythritol and have one less methylene unit, were synthesized in order to develop lead-free primary explosives. The compds. were derived from methallyl dichloride by such reactions as epoxidn., nucleophilic substitution, and ring-opening nitration. Nitration. These compds. are of potential interest as energetic plasticizers and their multiple functional groups can be exploited to prepare novel dendritic structures.  
 ST polyazide polynitrate PETN homolog explosive; epoxidn azidation methallyl dichloride explosive PETN homolog; nitration epoxidn methallyl dichloride explosive PETN homolog  
 IT Substitution reaction  
 (azidation; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT Dendritic polymers  
 RL: MSC (Miscellaneous)  
 (novel core structures for; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT Epoxidation  
 Explosives  
 (novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT Nitration  
 (ring-opening, of epoxides; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT 1871-57-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

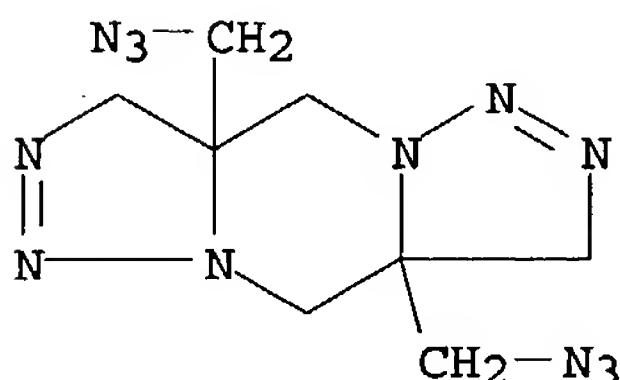
IT 481067-67-8P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (spontaneous formation and crystal structure of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT 1003-20-9P, Oxirane, 2,2-bis(chloromethyl) - 481067-58-7P  
 481067-60-1P 481067-62-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (synthesis and reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

IT 481067-63-4P 481067-64-5P 481067-65-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

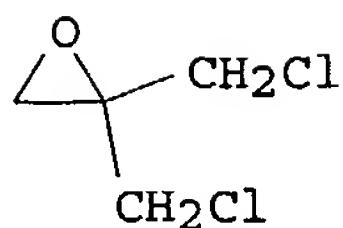
IT 481067-67-8P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (spontaneous formation and crystal structure of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

RN 481067-67-8 HCAPLUS  
 CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1',5'-d]pyrazine, 3a,8a-bis(azidomethyl) - 3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)

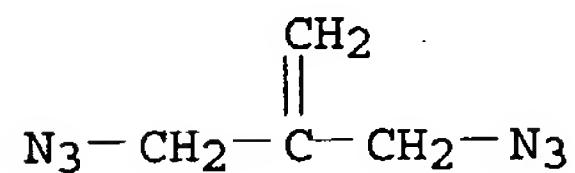


IT 1003-20-9P, Oxirane, 2,2-bis(chloromethyl) - 481067-58-7P  
 481067-60-1P 481067-62-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (synthesis and reactions of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)

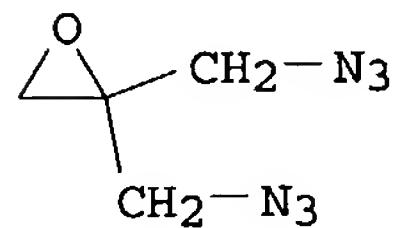
RN 1003-20-9 HCAPLUS  
 CN Oxirane, 2,2-bis(chloromethyl) - (8CI, 9CI) (CA INDEX NAME)



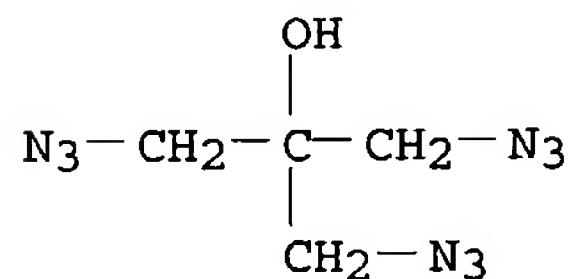
RN 481067-58-7 HCPLUS  
 CN 1-Propene, 3-azido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



RN 481067-60-1 HCPLUS  
 CN Oxirane, 2,2-bis(azidomethyl)- (9CI) (CA INDEX NAME)

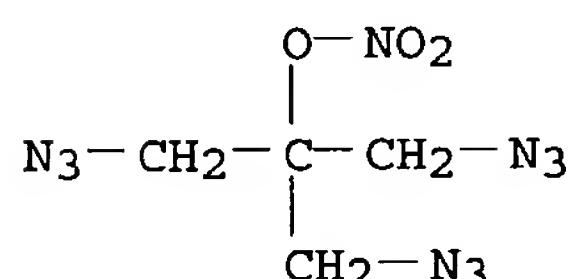


RN 481067-62-3 HCPLUS  
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)

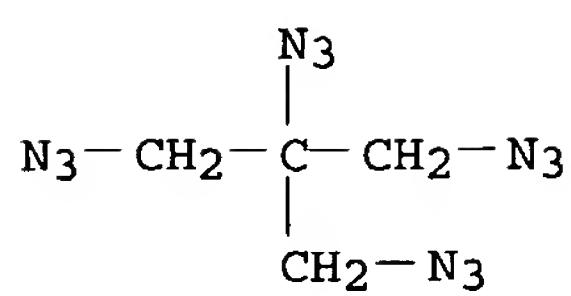


IT 481067-63-4P 481067-64-5P 481067-65-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of; novel polyazido-polynitro compds. derived from  
 methallyl dichloride by epoxidn., nucleophilic substitution, and  
 ring-opening nitration)

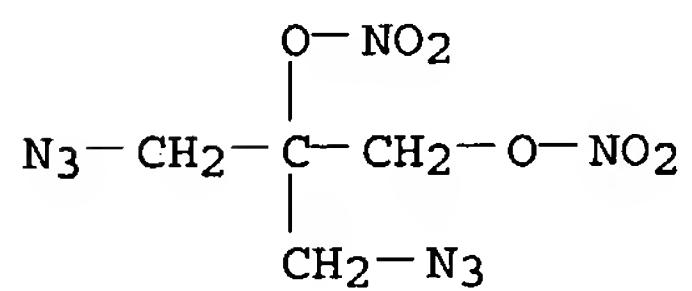
RN 481067-63-4 HCPLUS  
 CN 2-Propanol, 1,3-diazido-2-(azidomethyl)-, nitrate (ester) (9CI) (CA INDEX  
 NAME)



RN 481067-64-5 HCPLUS  
 CN Propane, 1,2,3-triazido-2-(azidomethyl)- (9CI) (CA INDEX NAME)



RN 481067-65-6 HCPLUS

CN 1,2-Propanediol, 3-azido-2-(azidomethyl)-, dinitrate (ester) (9CI) (CA  
INDEX NAME)

=&gt;